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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/807,433	03/24/2004	Jungwon Kang	RPL-0032	4258

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EXAMINER	
HINES, ANNE M	

ART UNIT	PAPER NUMBER
2879	

DATE MAILED: 09/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/807,433	KANG ET AL.	
	Examiner	Art Unit	
	Anne M. Hines	2879	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *3/24/04*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-12* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-12* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☒ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *24 March 2004* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☒ All b)☐ Some * c)☐ None of:

1.☒ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Specification

The abstract of the disclosure is objected to because it has two paragraphs. The abstract should only have one paragraph Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2, 3, 4, 5, 8, 9, 10, and 11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claims 2 and 8 it is not clear what the phrases "vertical direction" and "opposite sides" are referring to, rendering claims 2 and 8, as well as their dependent claims, indefinite. Claims 2-5 and 8-11 will be treated on their merits assuming the following: The phrase "vertical direction" refers to the direction perpendicular to the longitudinal axis of the transparent ITO electrodes in the plane view of the electrodes, for example figure 2; the phrase "opposite sides" refers to the longitudinal sides of the ITO electrodes in the plane view of the electrodes, for example figure 2.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Nakahara et al. (US Pat. No. 6,531,819).

Regarding claim 1, Nakahara discloses a plasma display panel comprising: transparent ITO electrodes which are spaced in parallel to each other at predetermined distance within a discharge cell (Fig. 6, 2; Column 4, lines 64-65); metal electrodes which are formed in parallel to said transparent ITO electrodes and formed on verge of said transparent ITO electrodes (Fig. 6, 3; Column 4, lines 66-67), respectively; and auxiliary metal electrodes which are formed on said transparent ITO electrodes which are formed on said transparent ITO electrodes so that are positioned in the direction of sides of said transparent ITO electrodes which are opposite to each other (Fig. 6, 4; Column 5, lines 14-17), respectively. The auxiliary metal electrodes are the portions of the auxiliary metal patterns that are formed on the transparent ITO electrodes.

Regarding claim 7, Nakahara teaches a plasma display panel comprising: transparent ITO electrodes which are spaced in parallel to each other at a predetermined distance within a discharge cell (Fig. 6, 2; Column 4, lines 64-65); metal electrodes which are formed on said transparent ITO electrodes and in parallel to said transparent ITO electrodes so that are positioned in the direction of sides of said transparent ITO electrodes which are opposite to each other (Fig. 6, 3; Column 4, lines

66-67), respectively; and auxiliary metal electrodes which are formed on verge of said transparent ITO electrodes, respectively (Fig. 6, 4; Column 5, lines 14-17). The auxiliary metal electrodes are the portions of the auxiliary metal patterns that are formed on the transparent ITO electrodes.

Regarding claims 2 and 8, Nakahara further discloses wherein said auxiliary metal electrodes are formed between middle of vertical direction of said transparent ITO electrodes and the opposite sides of said transparent ITO electrodes (Fig. 6, 4), respectively.

Regarding claims 3 and 9, Nakahara further discloses wherein said auxiliary metal electrodes are more than two and formed in parallel to each other within said transparent ITO electrodes (Fig. 6, 4), respectively.

Regarding claims 4 and 10, Nakahara further discloses wherein said auxiliary metal electrodes are three and formed in triangular shape on said transparent ITO electrodes (Fig. 6, 4), respectively. Considering those portions of the auxiliary metal pattern that are formed on the transparent ITO electrode, a triangle shape is formed by the auxiliary metal electrode formed on the portion of the ITO electrode labeled 2b and the two auxiliary metal electrodes formed on the portion of the ITO electrode labeled 2 at the intersection of the auxiliary metal patterns (4) and the metal electrodes (3).

Regarding claims 5 and 11, Nakahara further discloses wherein each of said auxiliary metal electrodes is quadrangular shape (Fig. 6, 4). The portions of the auxiliary metal pattern (4) formed on the transparent ITO electrode have a quadrangular shape.

Regarding claims 6 and 12, Nakahara further discloses wherein said auxiliary metal electrodes have numerous electrode pattern formed in equidistance (Fig. 6, 4), respectively.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anne M. Hines whose telephone number is (571) 272-2285. The examiner can normally be reached on Monday through Friday from 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Anne M Hines AMH 9/8/05
Patent Examiner
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Mariceli Santiago 9/9/05
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PRIMARY EXAMINER